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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/691,611	10/24/2003	Junichi Tanizaki	P24487	7206	
7055	7590 06/28/2005		EXAM	EXAMINER	
GREENBLUM & BERNSTEIN, P.L.C.			BEATTY, ROBERT B		
1950 ROLAN RESTON, V	ID CLARKE PLACE A 20191		ART UNIT	PAPER NUMBER	
1.221.41			2852		

DATE MAILED: 06/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				Z
,	Ar	pplication No.	Applicant(s)	
	10	0/691,611	TANIZAKI ET AL.	
Office Action Su	mmary Ex	aminer	Art Unit	
	Ro	bert Beatty	2852	
		s on the cover sheet with the c	correspondence address	
Period for Reply				
 If NO period for reply is specified above, Failure to reply within the set or extended 	COMMUNICATION. Ier the provisions of 37 CFR 1.136(a). date of this communication. less than thirty (30) days, a reply withi the maximum statutory period will ap d period for reply will, by statute, caus an three months after the mailing date		nely filed s will be considered timely. the mailing date of this communi D (35 U.S.C. § 133).	cation.
Status				
1) Responsive to communi	cation(s) filed on 24 Octob	per 2003.		
2a) ☐ This action is FINAL .	2b)⊠ This acti			
3) Since this application is	in condition for allowance	except for formal matters, pro	secution as to the meri	ts is
closed in accordance wi	th the practice under Ex pa	arte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims				
4)⊠ Claim(s) <u>1-18</u> is/are pen	ding in the application.			
4a) Of the above claim(s) is/are withdrawn f	rom consideration.		
5) Claim(s) is/are all	lowed.		•	
6)⊠ Claim(s) <u>1-18</u> is/are reje	cted.			
7) Claim(s) is/are ob	ojected to.			
8) Claim(s) are subj	ect to restriction and/or ele	ection requirement.		
Application Papers				
9) The specification is object	cted to by the Examiner.			
10) ☐ The drawing(s) filed on _	is/are: a)□ accepte	ed or b) objected to by the	Examiner.	
Applicant may not request	that any objection to the draw	ving(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing shee	et(s) including the correction i	s required if the drawing(s) is ob	jected to. See 37 CFR 1.1	21(d).
11)☐ The oath or declaration is	s objected to by the Exami	iner. Note the attached Office	Action or form PTO-15	2.
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is mad a)⊠ All b)□ Some * c)□		ority under 35 U.S.C. § 119(a)-(d) or (f).	
 1. ☐ Certified copies of 	f the priority documents ha	ive been received.		•
2. Certified copies of	f the priority documents ha	ive been received in Applicati	ion No	
Copies of the cert	ified copies of the priority of	documents have been receive	ed in this National Stage	Э
	ne International Bureau (Po			
* See the attached detailed	Office action for a list of the	ne certified copies not receive	ed.	
Attachment(s)	20	. □	(DTO 442)	
 Notice of References Cited (PTO-89 Notice of Draftsperson's Patent Drav 		4)		
3) Information Disclosure Statement(s)		5) Notice of Informal F	Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 2852

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- The drawings are objected to because Fig.8 should be labeled as Prior Art. 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 3. The disclosure is objected to because of the following informalities:

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on pages 9-10, the reference numerals do not correspond to the figures;

on page 16-20, the applicant refers to an "assembled developing unit" which is composed of plural photoreceptors which is unclear and the examiner recommends the applicant change this to --assembled photoreceptor unit-- where appropriate.

Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Tokutake et al.

Tokutake et al. teach an image forming apparatus having an intermediate transfer unit 7, a plurality of photoreceptor units 11Y, 11M, 11C, 11K, and a plurality of developing units 4Y, 4M, 4C, and 4K all detachable from the image forming apparatus. A door (jamming removal opening) 101 is opened and an integrated cartridge 8 supporting the intermediate transfer unit, plurality of photoreceptors, and plurality of developing units is slid out of the opening. Sheet

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supply trays 117a, 117b, and 117c are located at the bottom of the image forming apparatus, a sheet discharge tray 26 is located at an upper part of the apparatus, and a sheet transport path is formed from the sheet supply trays to the sheet discharge trays wherein by opening the door an operator can view (is confronted with) the transport path. The integrated cartridge 8 integrally couples the intermediate transfer belt, photosensitive units, and developing units together in one unit. The integrated cartridge acts as the intermediate transfer belt cartridge, the photoreceptor unit cartridge, and the developing device cartridge. The photoreceptor units are themselves subcartridges (containing at least the photoreceptor drum, cleaning device and charging device).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tokutake et al. in view of Iwamura (JP# 2002-182539).

Tokutake et al. taught supra discloses most of what is claimed except intermediate transfer belt is obliquely positioned with the photoreceptors, developers along the upper surface and the sheet transport mechanism along the

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bottom surface. Iwamura discloses an image forming apparatus having an obliquely positioned intermediate transfer belt 2, and the developers/photoreceptors are disposed on the upper surface while the sheet transport mechanism is along the bottom surface. The intermediate transfer belt and photoreceptor/developers are detachable from the image forming apparatus. It would have been obvious to one of ordinary skill in the art at the time the invention was made to position the imaging components as done in Iwamura because the device can be made small sized is easier to maintain as taught in Iwamura.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Haneda et al., Sameshima et al., Yokoi et al., Huffman et al., Okimura et al., and Matsuo (JP) all teach various detachable process units in an image forming apparatus.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Beatty whose telephone number is (571) 272-2130. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley, can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned

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is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

Robert Beatty Primary Examiner Art Unit 2852

June 26, 2005